FilmL.A., Inc.
6255 W Sunset Blvd, 12th Floor
Hollywood, CA 90028
t: (213)977-8600 - f: (213)977-8601
www.filmla.com

Summary Information

Permit No: F00166486-B **Type of Permit:** FILMING **Release Date:** 12/11/2020

Production Company	SUBSIDIARY OF AT&T HORIZON SCRIPTED TELEVISION INC.
Insured Company Name	SUBSIDIARY OF AT&T HORIZON SCRIPTED TELEVISION INC.
Contact Phone No. 1	312-627-6317
Contact Phone No. 2	
Fax	4000 WARNER BLVD. BLDG 131
Address	BURBANK, California 91522
Production Title	ANIMAL KINGDOM EP 511-513
Type of Production	TV Drama

Producer	Doug Orenstein
Director	Nick Copus
1st AD	Xochi Blymyer
Production Manager	Robert Scott
FilmL.A. Coordinator	Hans Groszkruger
Location Manager	Kristina Santoro
Primary Phone	Mobile - 323-449-6923
Secondary Phone	Office - 818-954-4505
Location Assistant	N/a N/a
Primary Phone	Mobile - 555-555-5555
Secondary Phone	

Fees

FILMLA NON-REFUNDABLE FILM PERMIT RIDER FEE	$111.00

Total Permit Fee $111.00

Number of Locations 1

NOT A PERMIT

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Summary Information — Location

Permit Number F00166486-B
Production Company SUBSIDIARY OF AT&T HORIZON SCR...
Insured Company SUBSIDIARY OF AT&T HORIZON SCR...
Production Title ANIMAL KINGDOM EP 511-513

Location Manager Kristina Santoro
Primary Phone Mobile - 323-449-6923
Secondary Phone Office - 818-954-4505

Location Address 1610 Barracuda St, Los Angeles, CA, 90731

Location Type Business

Prep Dates 12/3/2020 - 12/4/2020 07:00 - 19:00 2 days

Film Dates
12/7/2020 - 12/7/2020 06:00 - 20:00 1 day
12/8/2020 - 12/8/2020 06:00 - 20:00 1 day
12/9/2020 - 12/9/2020 06:00 - 20:00 1 day
12/10/2020 - 12/10/2020 06:00 - 20:00 1 day
12/11/2020 - 12/11/2020 06:00 - 20:00 1 day

Strike Dates 12/14/2020 - 12/15/2020 07:00 - 19:00

Open or Closed to the Public Closed

Generic Conditions
*** MUST COMPLY WITH ATTACHED REOPENING PROTOCOL FOR MUSIC, TELEVISION AND FILM PRODUCTION: APPENDIX J EFFECTIVE AS OF FRIDAY, JUNE 12, 2020.***
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
*LAFD UFSO: Company must contact FilmL.A. for extension of the Uniformed Fire Safety Officers' hours. During normal business hours, UFSO must also inform the LAFD Film desk of the extension.
FAA (UAS): Failure to adhere to any applicable limitations of UAS usage will result in immediate shutdown of UAS activity
FAA (UAS): Production company must notify Air Operations for LAPD (213-485-2600) and LAFD (818-756-8635) at least 1/2 hour prior to activity.
FAA (UAS): UAS may not be operated directly over any person, unless authorized by FAA
FAA (UAS): UAS must be operated at an altitude of no more than 400' above ground level
FAA (UAS): UAS operations may not be conducted during night (1/2 hour prior to sunrise, 1/2 hour after sunset).
FAA (UAS): UAS Operator must conform with all FAA Regulations
FAA: Aviation activity must conform to accepted FAA plan of activities.
FAA: Company must notify Air Operations for LAPD (213-485-2600) and LAFD (818-756-8635) at least 1/2 hour prior to activity.
Must abide by Harbor Department special conditions approved by Port of LA.
Must Maintain 5' Clearance on Sidewalks/Walkways
No cast or crew parking on area streets
Notify LAPD Harbor Division (310)726-7700 and comm. (213) 978-6552 1/2 hour prior to any gunfire, brandishing weapons, special effects or simulated emergency or criminal activity.
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached documents
1610 barracuda.pdf
Blizzard Drone packet.pdf

Equipment on Location

Type	Quantity
5 or 10 ton	4

Personnel on Location

Type	Quantity
Cast	10

NOT A PERMIT

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Summary Information — Location

Permit Number F00166486-B
Production Company SUBSIDIARY OF AT&T HORIZON SCR...
Insured Company SUBSIDIARY OF AT&T HORIZON SCR...
Production Title ANIMAL KINGDOM EP 511-513

Location Manager Kristina Santoro
Primary Phone Mobile - 323-449-6923
Secondary Phone Office - 818-954-4505

trucks		Crew	80
Bebee Light	1	LA City UFSO assigned	47829
Cast/Crew vehicles	75	Off-Duty/Retired LAPD Officer(s)	2
Condors	1		
Cranes	1		
Cube Trucks	3		
Generator	1		
Motor Homes	1		
Picture vehicles	5		
Trailers	3		
Vans	3		

Filming Activities Aerial Photography with remote control aircraft. (UAS); Animal on set (Please add specifics in the “add other” section); Brandishing weapons; Drive ups & away; Interior and exterior dialogue; Intermittent traffic control - 2 minutes standard; Stunt fighting; Placing guard shack at dock entrance (securing with bull pricks); Stacking shipping containers for set pieces; Airsoft weapons; Low to moderate speed boat chase in open water and canal; Talent in water; Stunt work off dock; Stunt driving; Dog on set (12/8); Handheld power tiny smoker; Non-pyro dust hits from capsule gun; 50' technocrane and condor; Harbor patrol boat, pursuit boat, 2 support boats, fishing boat; 2 large forklifts and 2 small forklifts; 2 hydrofoils; 4 jet skis; 1 barge; boat will be leaving dock, talent in water, stunt work off dock; Pursuit Boat, 2 Support Boats, WeeMan the Skiff, Fishing Boat, 4 Jet Skis, 1 Barge; Port Police Marine Unit will be assigned during water activity. ;

Special Effects:

Type	No. Times Per Day	No. Takes Per Take
Dust Hits	6 - 10	6 - 10

Description of F/X Scene: Handheld power tiny smoker; water-based glycol fluid, non-pyro dust hits from capsule gun

Jurisdiction **Political:** Los Angeles City - Council District 15 **Police:** Los Angeles Police **Fire:** Los Angeles City Department

Thomas Guide **Page:** 824 **Grid:** E6

Approvals LOS ANGELES CITY HARBOR DEPARTMENT Shirley Palacios

Coordinator Note Approved by Gabrielle Earl, WHARFINGERS, 310-732-3810. Jurisdiction of Port Police, 310-732-3500.

Coordinator Note Base Camp/Crew Parking at 900A lot 12/7/2020-12/11/2020 - production will only use rectangular portion, not pie shape portion of the lot. Permittee will call Port Police, 310-732-3500, for access to Harbor Lot 900A on Barracuda Street.

Coordinator Note Permittee will be rolling back a chain link fence and is responsible for restoring the fence to the original condition. Permittee will call Port Police, 310-732-3500, for access to Barracuda West Lot. Prep Days at the Barracuda West Lot: 12/3 & 12/4

Coordinator Note UFSO REQUIRED FOR DRONE
12/7 0600-2000

NOT A PERMIT

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Summary Information — Location

Permit Number F00166486-B
Production Company SUBSIDIARY OF AT&T HORIZON SCR...
Insured Company SUBSIDIARY OF AT&T HORIZON SCR...
Production Title ANIMAL KINGDOM EP 511-513

Location Manager Kristina Santoro
Primary Phone Mobile - 323-449-6923
Secondary Phone Office - 818-954-4505

START at 321 Viewland Pl,
FOLLOW TO
1610 Barracuda St

UFSO fro Drone at 1610 Barracuda St on:
12/8 0600-2000
12/9 0600-2000
12/10 0600-2000
12/11 0600-2000

Coordinator Note
Covid Compliance: Lyon Reese
Phone: 323-691-0024

Coordinator Note RIDER "B" ADJUSTS STRIKE DATES

Parking

Base Camp
Location Type : Filming Location

Crew Parking
Location Type : Filming Location

Parking Notes
Parking in 390 Terminal Way Lot 900a and Barracuda West lot
POLA 900A Lot 12/7/2020-12/11/2020. The production company will be doing Basecamp/Crew Parking.

Prep Days 12/3/2020 & 12/4/2020 to the Barracuda West Lot the production company will be doing weed abatement at the site and will not be charged a Prep Fee.

NOT A PERMIT

Permit #F00166486-B

City of Los Angeles Animal Services

221 N. Figueroa St. Suite 600, Los Angeles, CA 90012

(888) 452-7381

Receipt Number: **R20-098783**

Receipt Date: **Wednesday, December 2, 2020**

Person Information: CHRISTIE HAZLET
1481 E 4TH ST
LOS ANGELES, CA 90033

PID: P1654692

Received From: ELIANA NAVA

Check No:

Phone: (323) 260-4777

Item:	Animal ID:	Reference No:	Price:	Each:	Amount:
PMT AML FLM		1610 BARRACUDA	$680.00	1	$680.00

Total Fees Due: **$680.00**

Payments:

Cash:

Check:

Credit Card: $680.00

Total Payments Received: **$680.00**

Thank You!

Change: $0.00

Balance Due: $0.00

NOT A PERMIT

Shelter Hours

Tuesday through Saturday - 8:00 AM to 5:00 PM and Sundays - 11:00AM to 5:00PM

All Shelters are CLOSED Mondays and Holidays

Clerk: ADMIN mmanaha

Transaction Date: 12/02/20

Print Date/Time: 12/2/2020 11:01:33AM

LIMITED EXCHANGE POLICY

Refunds - No refunds or guarantees. This includes adoption, microchip, and spay/neuter fees.

Returns & Exchanges - Returns must be made within 10 days of the adoption date. You will have 31 days from the adoption date to select a new pet. If the adoption fees of a subsequently selected pet are greater than the original, the adopter shall pay the difference. No refund shall be made if the price of the newly adopted pet is less than the amount paid for the original pet. After the adoption process of a pet is completed, any fees paid for treatment, diagnostics, hospitalization, boarding, prescriptions, etc., are the responsibility of the new owner. These costs are not refundable and are not reimbursable if the pet is returned for an exchange. License fees are non-refundable and non-transferable except in the event of an exchange when the license may be transferred to the newly selected pet if applicable.

I **acknowledge that I have reviewed and understand the Adoption Policy and Agreement. With my agreement to this adoption, signed adoption receipt, I hereby release the City of Los Angeles, its employees and agent from any liability and claim that I may have, whether known or unknown, now or in the future, in connection with my adoption, ownership and disposal of any animal adopted from the City of Los Angeles Department of Animal Services.**

Protect your companion animal. The Department of Animal Services offers microchips and national registration for only $15.00 per cat or dog.

Free Veterinary Examination: I hereby certify that this (dog/cat) has been examined by me and found (fit/unfit).

SIGNATURE: _____ DATE: _____

VETERINARIAN'S SIGNATURE: _____ DATE: _____

NOT A PERMIT

Shelter Hours

Tuesday through Saturday - 8:00 AM to 5:00 PM and Sundays - 11:00AM to 5:00PM

All Shelters are CLOSED Mondays and Holidays

Permit #F00166486-B

UAS QUESTIONNAIRE

FilmL.A. Permit #:

(FOR MORE THAN 2 LOCATIONS, PLEASE LIST ADDITIONAL LOCATIONS, DATES, AND TIMES ON A SEPARATE PIECE OF PAPER)

Film Date: December 7-11, 2020

Production Title: Animal Kingdom

Production Company: Animal Kingdom

Applicant Name:

Location Address: 1610 Barracuda St. San Pedro, CA 90731

Hours of UAS Activity: 6am - 7pm

Location Address #2: 321 Viewland Pl. San Pedro, CA 90731

Hours of UAS Activity: 6am - 7pm

UAS Company Name: Astraeus Aerial, LLC

UAS ON LOCATION INFORMATION

ANY RESTRICTED AREAS OR TEMPORARY FLIGHT RESTRICTIONS? ☐ YES ■ NO

UAS Make & Model: DJI Inspire 2

UAS "N" # or registration #: FA3CPYNRLC

UAS Make & Model: DJI Inspire 2

UAS "N" # or registration #: FA3A77A3NT

Class of Airspace that activity will occur in: ☐ B ☐ C ■ D ☐ E ■ G

Location 1 - Class G
Location 2 - Class D

REMINDER: IF YOU ARE FLYING IN CLASS B, C, D, OR E AIRSPACE, ATC AUTHORIZATION IS REQUIRED FOR ALL UAS ACTIVITY.

UAS OPERATING AUTHORITY:

■ 14 CFR PART 107 ☐ TITLE 49 (STUDENTS ONLY)

PART 107 REQUIREMENTS

Name of Remote Pilot: Steven Blizzard

Remote Pilot Phone #: (619) 889-0051

Certificate #: Remote Pilot #3904184

Visual Observer: ☐ YES ■ NO

PLEASE PROVIDE THE FOLLOWING:

- Copy of Remote Pilot's Certificate
- Copy of UAS Registration Certificate for each UAS listed above
- Description of Planned Operations
- Current Knowledge Test, if Airman Certificate is more than 2 years old

TITLE 49 REQUIREMENTS (STUDENTS ONLY)

Applies to **students enrolled at an accredited educational institution**, operating under "Hobbyist" rules. **May not be used for any commercial filming.**

Name of Operator:

Operator's Phone #:

Name of School:

PLEASE PROVIDE THE FOLLOWING:

- Copy of UAS Registration
- Detailed description of proposed UAS activities
- Name of community-based organization's safety guidelines under which you will be operating
- Required insurance
- Certification letter from school (on school stationary)

WAIVERS

If you are requesting any of the following activity, please check all that apply and furnish proof of waiver from the FAA upon submission of this document to FilmL.A. **Please note, students may not apply for FAA waivers under Title 49.**

☐ Flight over non-participants (§107.39)
☐ Flight altitude restrictions (§107.51)
☐ Night Flight (§107.29)
☐ Operating from a moving vehicle (§107.25)
☐ Operating multiple small UAS' (§107.35)

FILMLA. USE ONLY

PART 107 CERTIFICATE

☐ INSURANCE
☐ DOCS ATTACHED TO PERMIT
☐ REMOTE PILOT CERTIFICATE
☐ UAS REGISTRATION CERTIFICATE(S)
☐ WAIVERS
☐ DESCRIPTION OF OPS.
☐ ATC COORDINATOR NOTE

TITLE 49 REQUIREMENTS

☐ UAS REGISTRATION
☐ DESC. UAS ACTIVITIES
☐ COMMUNITY GUIDELINES
☐ INSURANCE
☐ SCHOOL LETTER

☐ _____ I ASSERT THAT ALL INFORMATION ON THIS FORM IS ACCURATE.

(APPLICANT)

UPDATED: 12/03/2018

NOT A PERMIT

U.S. DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
Airman Knowledge Test Report

Permit #F00166486-B

NAME: STEVEN MICHAEL BLIZZARD

FAA TRACKING NUMBER (FTN): A5174442 **EXAM ID:** 90083120205930255

EXAM: Unmanned General - Recurrent

EXAM DATE: 08/31/2020 **EXAM SITE:** ABS91301

SCORE: 85% **GRADE:** Pass **TAKE:** 1

The Airman Certification Standards (ACS) codes listed below represent incorrectly answered questions. These ACS codes and their associated Areas of Operation/Tasks/Elements may be found in the appropriate ACS document at http://www.faa.gov/training_testing/testing/acs.

A single code may represent more than one incorrect response.

UA.I.B.K21a UA.I.B.K21d UA.II.A.K1c UA.V.B.K6a UA.V.D.K2

EXPIRATION DATE: 08/31/2022

DO NOT LOSE THIS REPORT

AUTHORIZED INSTRUCTOR'S STATEMENT: (if applicable)
On _____ (date) I gave the above named applicant _____ hours of additional instruction, covering each subject area shown to be deficient, and consider the applicant competent to pass the knowledge test.

Name_____

Cert. No._____ *(print clearly)*

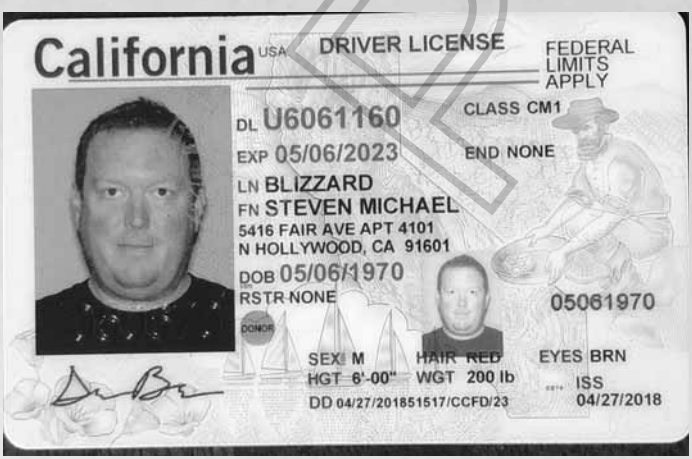
Type of instructor certificate_____

Signature _____

FRAUDULENT ALTERATION OF THIS FORM BY ANY PERSON IS A BASIS FOR SUSPENSION OR REVOCATION OF ANY CERTIFICATES OR RATINGS HELD BY THAT PERSON.

ISSUED BY: PSI Services LLC
FEDERAL AVIATION ADMINISTRATION

THIS INFORMATION IS PROTECTED BY THE PRIVACY ACT. FOR OFFICIAL USE ONLY.



NOT A PERMIT

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: DJI

Model: Inspire 2

Serial Number: 09Y3G2T004H016

Certificate Number: FA3CPYNRLC

Issued: 04/12/2019 Expires: 04/12/2022

G

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

Operators of unmanned aircraft must ensure they comply with the appropriate safety authority from the FAA and economic authority from the DOT. To operate as a recreational flyer, a person must meet all of the statutory conditions of the exception for limited recreational operations of unmanned aircraft (49 U.S.C. 44809). Persons who do not meet any of the statutory conditions may not operate under the statutory exception for limited recreational operations of unmanned aircraft and would need to operate the unmanned aircraft under part 107 or any other applicable FAA authority.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas.

NOT A PERMIT

Permit #F00166486-B

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: DJI

Model: Inspire 2

Serial Number: 09YDF3UP040403

Certificate Number: FA3A77A3NT

Issued: 09/28/2020 **Expires:** 09/28/2023

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents recognition of ownership.

Operators of unmanned aircraft must ensure they comply with the appropriate safety authority from the FAA and economic authority from the DOT to operate as a recreational flyer, a person must meet all of the statutory conditions of the exception for limited recreational operations of unmanned aircraft (49 U.S.C. 44809). Persons who do not meet any of the statutory exceptions for limited recreational operations of unmanned aircraft would need to operate the unmanned aircraft under part 107 or any other applicable FAA authority.

This small UAS Certificate of Registration is not authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas.

NOT A PERMIT

ASTRAEUS
AERIAL CINEMA SYSTEM

PLAN OF ACTIVITY

For Part 107 sUAS Image-Capture Operations

Prepared By: Hal Winer – Director of Operations Phone: 914-523-6044

PRODUCTION, EPISODE/NUMBER:
Animal Kingdom, S5

PRODUCTION COMPANY, CONTACT:
Animal Kingdom / Horizon Scripted Television
Thu Pham - Production Supervisor
818-977-4800 o, 310-592-7964 c thutpham@aol.com

DATES AND TIMES OF OPERATION:
December 7-11, 2020. 6am – 6pm Daylight hours.

MAKE, MODEL, AND REGISTRATION NUMBER OF UAS(S) TO BE USED:
DJI Inspire 2/X7
Primary: FA3A77A3NT, Backup: FA3CPYNRLC

REMOTE PILOT(S):
Steven Blizzard, Remote Pilot certificate #3904184

VISUAL OBSERVER/ON-SCENE FLIGHT CREW CONTACT:
Zena Cabrera (619) 201-2343 zena@astraeusaerial.com

LOCATION 1: Port Location – Dock, 1610 Barracuda St., San Pedro, CA 90731		LOCATION 2: Ballfield Location, 321 Viewland Pl., San Pedro, CA 90731		LOCATION 3:	
LAT/LONG: 33°43'51.8"N 118°15'46.9"W	OPS RADIUS: .5 NM	LAT/LONG: 33°45'03.3"N 118°17'03.2"W	OPS RADIUS: .2 NM	LAT/LONG:	OPS RADIUS:
ELEVATION:	ALTITUDES: Surface to 400' AGL	ELEVATION:	ALTITUDES: Surface to 200' AGL	ELEVATION:	ALTITUDES:
NEAREST AIRPORT: Torrance		NEAREST AIRPORT: Torrance		NEAREST AIRPORT:	

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

AIRSPACE:
B ☐ C ☐ D ☒ E ☐ G ☒
Notes:
Location #1 is in unrestricted “Class G” airspace.
Location #2 is in KTOA Torrance “Class D” airspace. 200’ AGL altitude restriction. COA attached.

AIRSPACE AUTHORIZATION(s):
None required ☐
2020-P107-WSA-15686_KTOA Attached.
107W-2016-00601D Attached.

DESCRIPTION OF TERRAIN (boundaries, natural barriers, critical/sensitive features):

Location #1 – Port area. Dock, adjacent channel and open water. Port and boating activity nearby.

Location #2 – Recreational ballfield. Open space, fields, parking areas and perimeter road.

LOCATION MANAGER, CONTACT INFO:	OWNER OR SITE REPRESENTATIVE:
Kristina Santoro, 323-449-6923 (m), gypsysantoro@gmail.com	

DESCRIPTION OF SHOTS/SHOT LIST:

Wide, overhead and tracking shots of actors and boats. No general public within shooting perimeter. No Direct overflight of people.

ITC and protected perimeter at both locations.

Closed Set.

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

SAFETY AND SECURITY PLAN:
This filming location will be closed to non-participants, and UAS operations will take place within a safety perimeter controlled by production and security personnel, with appropriate road closures and/or ITC. Flight operations will be suspended immediately if non-participants enter the safety perimeter, or if any other condition jeopardizes safety of flight. As specified in Part 107.39: operations will only take place over people if they are "located under a covered structure" or inside a "vehicle that can provide reasonable protection from a falling small unmanned aircraft."

Class ABC fire extinguishers will be available at all times.

Per the standard established in Astraeus Aerial's Section 333 Motion Picture and Television Operations Manual, flight crew will maintain the following:

- Non-essential production personnel will remain a minimum of 100' from flight operations.
- Essential production personnel MAY be permitted less than 100' from flight operations, upon acknowledgement of the risks involved, and only at the discretion of the Flight Crew.

PRIOR TO UAS OPERATIONS, FLIGHT CREW MUST BRIEF ALL PERSONNEL WHO WILL BE ON SET.

COMMUNICATIONS:
Voice: between PIC and Visual Observer
Radio, Primary Channel: per production
Radio, Secondary Channel: per production

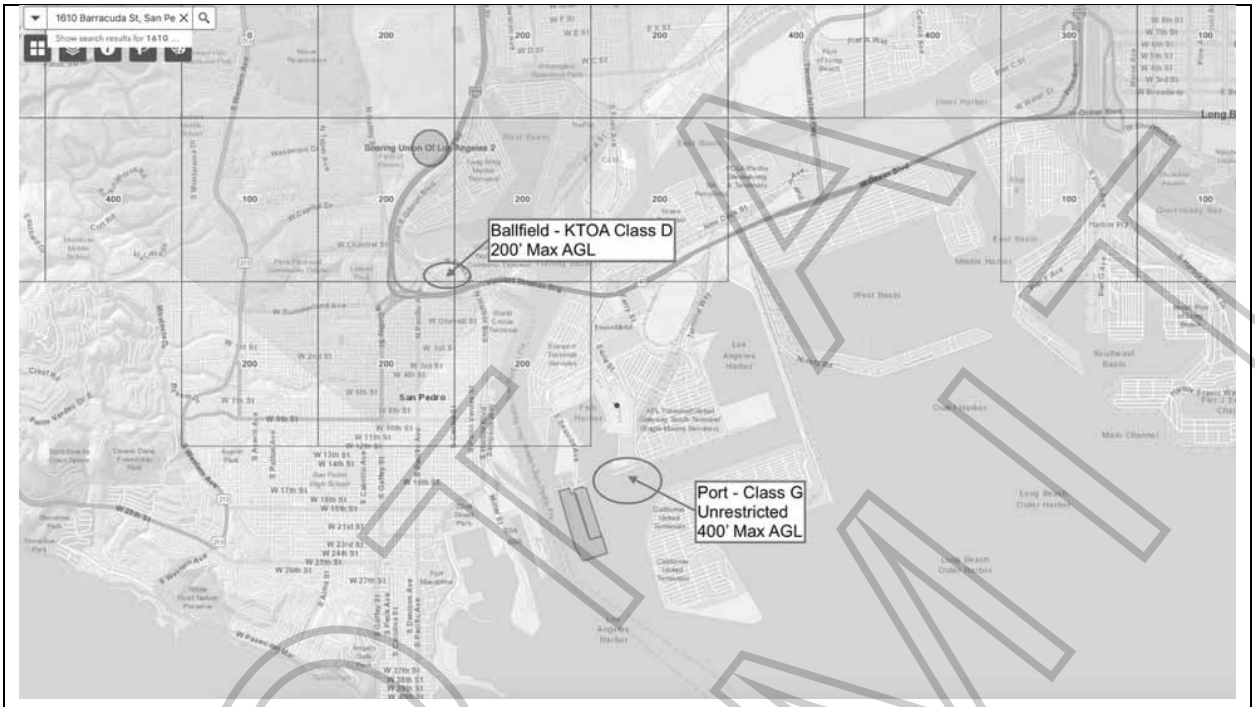
PERSON RESPONSIBLE FOR SAFETY PERIMETER:
1st AD - Xochi Blymyer xbnh@aol.com 818-652-0381

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

LOCATION MAPS / DIAGRAMS

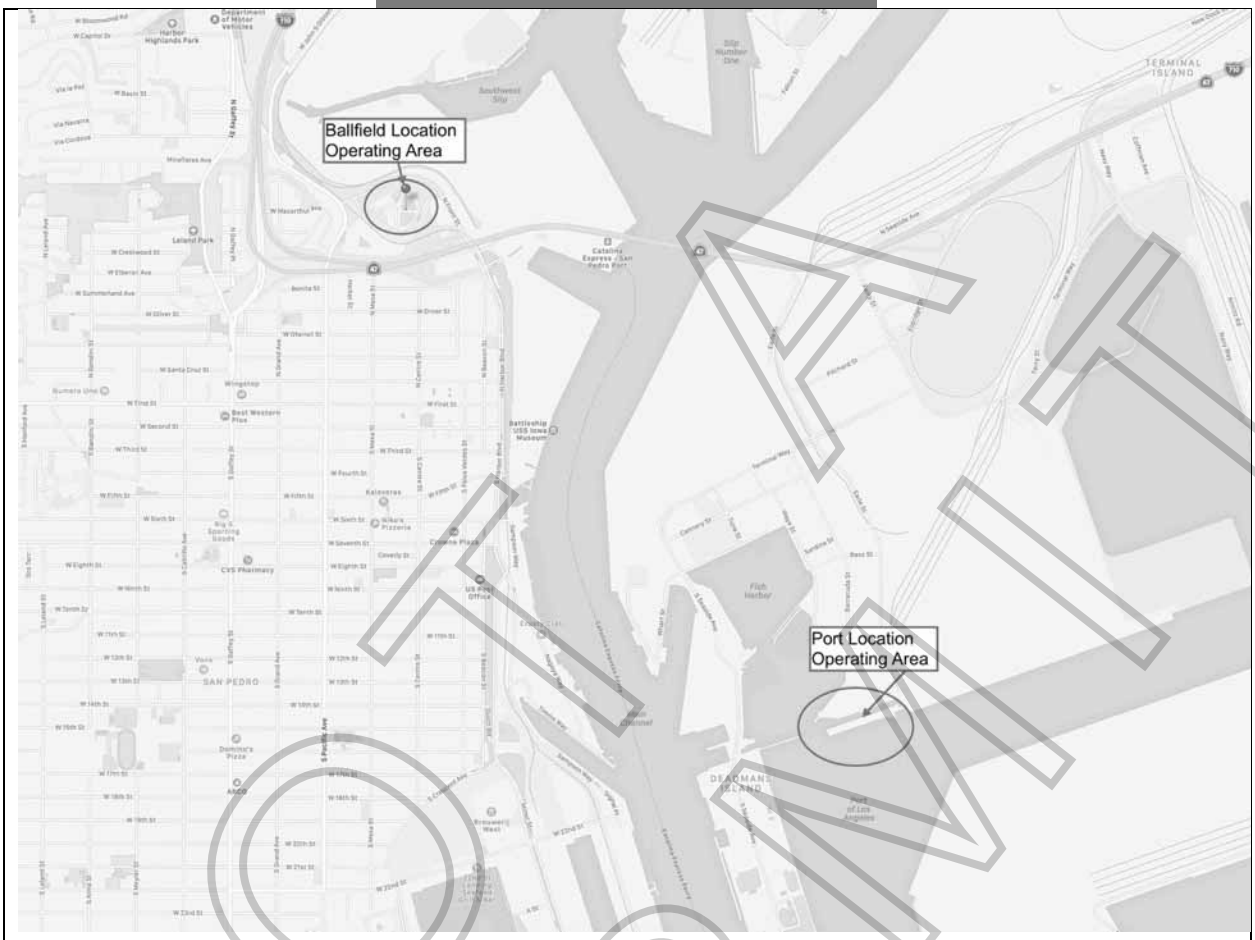


FAA Map

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM



Street Map

NO PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

Sat. View

NOT PERMITTED

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

Harbor Location

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

Ballfield Location

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO: Astraeus Aerial LLC

POC PHONE NUMBER: 914-523-6044

ATTN: Hal Winer

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate, except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Operations under this certificate of authorization (COA) are limited to the maximum altitude listed below. This altitude is an absolute value and it shall not be added to the height of any structures.
Class of Airspace: **D**
At or Below: Altitudes in accordance with published Unmanned Aircraft System (UAS) Facility Map (UASFM).
Under the Jurisdiction of: Torrance Airport Traffic Control Tower (ATCT)
Airport Identifier: Zamperini Field Airport/ **KTOA**

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

N/A

STANDARD PROVISIONS

1. A copy of the application, made for this certificate, shall be attached and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Federal Aviation Administration or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE - This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions 1 to 3, inclusive, are set forth in this authorization.

This certificate 2020-P107-WSA-15686 is effective from October 1, 2020 to August 31, 2021 , and is subject to cancellation at any time upon notice by the Administrator or his/her authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

FAA Western Service Area
(Region)

For Rob Riedl
(Signature)

August 11, 2020
(Date)

Acting Tactical Operations Manager
(Title)

NOT A PERMIT

FAA Form 7711-1 (7-74)

SPECIAL PROVISIONS

1. CONTACT INFORMATION:

a. Hal Winer is the person designated as responsible for the overall safety of UAS operations under this COA. During UAS operations for on-site communication/recall, the Responsible Person shall be continuously available for direct contact at 914-523-6044 by KTOA ATCT or designated representative.

b. The Responsible Person listed on this COA must maintain a current list of pilots by name and the remote pilot certificate number(s) associated with the COA holder's operation. This list must be presented for inspection upon request from the Administrator or an authorized representative.

2. SCHEDULE OF FLIGHT OPERATIONS:

a. Night, Beyond Visual Line of Sight Aircraft Operation, and Multiple Small Unmanned Aircraft Operation authorized at the altitude stated in this COA and in accordance with Special Provisions established in 14 CFR § 107.29 Daylight Operation, 14 CFR § 107.31 Visual Line of Sight Aircraft Operation, and 14 CFR § 107.35 Operation of Multiple Small Unmanned Aircraft waiver [107W-2016-00601D].

b. This COA does not relieve the remote pilots from the responsibility to check the airspace they are operating in and comply with all restrictions that may be present in accordance with, see 14 CFR 107.45 and 107.49 (a)(2), such as restricted and Prohibited Airspace, Temporary Flight Restrictions, etc.

c. The facility may disapprove, terminate, restrict, or delay UAS flight operations covered by this COA at any time.

d. The operator is responsible for reviewing the current UASFM prior to each flight, noting any changes to the area of operations (i.e., altitude changes, airspace modifications, temporary flight restrictions, etc.). Open the UASFM website at https://udds-faa.opendata.arcgis.com, scroll down and open the "Visualize It" section. If you need to operate at an altitude that is above the published UASFM, you must apply for a new COA requesting that location and altitude.

3. EMERGENCY/CONTINGENCY PROCEDURES - Lost Link/Lost Communications Procedures:

a. If the UAS loses communications or loses its Global Positioning System signal, the Unmanned Aircraft must return to a pre-determined location within the operating area and land.

b. The Pilot in Command must abort the flight in the event of unpredicted obstacles or emergencies.

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Astraeus Aerial
Responsible Person: David Wagreich
Waiver Number: 107W-2016-00601D

ADDRESS –

2708 Wilshire Blvd., Ste. 383
Santa Monica, CA 90403

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Night small Unmanned Aircraft System (sUAS) operations, first person view in lieu of visual line of sight operations by the remote pilot in command, and operating more than one sUAS at the same time.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.29 Daylight operation
14 CFR § 107.31 Visual line of sight operations
14 CFR § 107.35 Operation of multiple small unmanned aircraft

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions Nos. 1 to 24, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from January 05, 2017 to August 31, 2021 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

General Aviation and Commercial Division, AFS-800

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FAA Form 7711-1 (7-74) CC:

SPECIAL PROVISIONS ISSUED TO
Astraeus Aerial

General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2016-00601C issued to Astraeus Aerial for operations under 14 CFR 107. Waivers 107W-2017-00901C, 107W-2016-00601B, 107W-2016-00601A, and 107W-2016-00601 are no longer valid.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.29, Daylight operation, is waived to allow sUAS operations during night.

14 CFR § 107.31, Visual line of sight aircraft operation is waived to the extent necessary to allow the remote pilot in command (PIC) to operate the small unmanned aircraft (sUA) with first person view (FPV), in lieu of visual line of sight, while a second remote pilot, who holds a valid remote pilot certificate under part 107, acts as Visual Observer (VO), and exercises the ability to see the sUA throughout the entire flight.

14 CFR § 107.35 Operation of multiple small unmanned aircraft.

Common Provisions. The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the remote PIC, manipulator of the controls, and VO complies with all provisions of this Waiver.

1. The Responsible Person listed on the Waiver is responsible to the FAA for the safe conduct of the operations. Prior to conducting operations that are the subject of this Waiver, the responsible person:
   a. Must ensure the remote PIC, manipulators of the controls, and VO are informed on the terms and provisions of this waiver and the strict observance of the terms and provisions herein;
   b. Must ensure the remote PIC, manipulators of the controls, and VO are informed and familiar with part 107 regulations not waived; and
   c. The above must be documented and must be presented for inspection upon request from the Administrator or an authorized representative.

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2. This Waiver must not be combined with any other waiver(s), authorizations(s), or exemption(s) without specific authorization from the FAA;

3. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;

4. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;

5. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;

6. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

7. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

8. All operations under this Waiver must use one or more VO;

Night sUAS Operations Special Provisions. sUAS operations may be conducted at night, as defined in 14 CFR § 1.1, provided:

9. As described in the Waiver application, the remote PIC and VO must be trained, to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision prior to conducting operations that are the subject of this Waiver. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;

10. The area of operation must be sufficiently illuminated to allow both the remote PIC and VO to identify people or obstacles on the ground, or the remote PIC and VO must conduct a daytime site assessment prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions;

11. The sUA must be equipped with lighted anti-collision lighting visible from a distance of no less than 3 statute miles. The intensity of the anti-collision lighting may be reduced if, because of operating conditions, it would be in the interest of safety to do so;

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Visual Line of Sight Operations Special Provisions. sUAS operations may be conducted with the remote pilot in command using FPV, in lieu of visual line of sight, provided:

12. At all times, at least one person who holds a remote pilot certificate under part 107 must maintain visual line of sight (VLOS) of the sUA in order to (1) know the sUA's location, (2) determine the sUA's attitude, altitude and direction of flight, (3) observe the airspace for other air traffic or hazards and (4) determine that the sUA does not endanger the life or property of another. The remote pilot maintaining VLOS may act as a required VO while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

13. Communication between the remote PIC and the remote pilot maintaining VLOS, acting as a VO, must allow for the remote PIC to maneuver the sUA with sufficient time to perform necessary maneuvers to avoid other aircraft in accordance with § 107.37, or react to any unforeseen operational or mechanical failure;

14. As described in the waiver application, operations that are the subject of this Waiver must remain within VLOS of the remote pilot, acting as VO, at all times while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

15. As described in the waiver application, prior to and during operations that are the subject of this Waiver, the "override" feature of the sUA must operate properly so that the remote pilot, acting as VO, has continuous control and override capability of the sUA while the remote PIC operates the sUA using FPV;

16. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the remote PIC and the remote pilot acting as VO must maintain continuous full-duplex voice communication;

17. As described in the waiver application, the remote PIC must fulfill the requirements of § 107.15(a) for all components of the sUAS;

18. All sUA operations conducted in accordance with this Waiver must comply with the manufacturer User Manual, including recommendations and limitations;

Operation of Multiple sUAS Special Provisions. sUAS operations with multiple sUA may be conducted, provided:

19. Prior to conducting operations that are the subject of this Waiver, operational area obstacles and boundaries must be identified so as to avoid collision with, or damage to property;

20. An individual system failure must not interfere with the operation of any other sUA or cause incidents, accidents, or loss of control involving any other sUA that are subject to this Waiver;

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21. As described in the waiver application, operations are only permitted within a location closed to the general public, with a secured perimeter;

22. As described in the waiver application, operations using multiple sUA are limited to not more than 6 sUA at a time and will not exceed 30 knots groundspeed (35 mph);

23. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the flight controller and the associated flight control system capability for each aircraft, operate properly; and

24. Not less than 24 hours prior to conducting operations that are the subject of this Waiver, a Notice to Airmen (NOTAM) must be filed. The NOTAM must include location, altitude, and/or operating area, time and nature of the activity, and number of sUA flying in the operating area.

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